

Site Checklist for ETV field test of ISCO Technologies

- The ETV Materials Management and Remediation (MMR) Center, a collaboration between EPA ORD/NRMRL and Battelle, is ideally looking for an abandoned underground tank system, with piping and tanks still installed, at an inactive gas site. However, the ETV field test could be conducted at a site without underground tanks.
- It is anticipated that some remediation will have already occurred at the Site, but contamination will be remaining.
- Radius of influence is one of the parameters that will be verified during the ETV test for the different technologies. The Site will be located away from any drinking water zone or aquifer. The Site will also be away from any underground utilities. Ideally, the ETV test will be implemented at a Site that will likely have no implication to its surroundings.
- Groundwater contamination is the primary focus of the ETV field test. However, depending on vendor requirements, soil contamination could be included as a target.
- Primary target Contaminant of Concern is BTEX.
- The Site will be amenable to injection technology; i.e. a Site that cannot be addressed by traditional methods.
- The Site will have sandy/porous permeable type of soil type.
- The Site will have shallow (< 10 ft) ground water.
- Site monitoring will be conducted during the ETV test as part of the ISCO technology evaluation, but ideally, the Site will have a monitoring well network in place.
- Ideally, the Site will have all injection permits or waivers in place or the Site will assist in obtaining the required permits, if possible.
- Requested Site background information (to be provided as part of Site selection):
 - Groundwater concentration in the last quarter
 - Soil concentration at the Site
 - Groundwater quality parameters such as ORP, pH, DO
 - Knowledge of TPH and free product on site
 - Underground structures i.e. piping, USTs etc – the location and material of construction will be required
 - Site lithology, hydrogeology, and figures
- The length of the ETV field test will range between one week and a month. At least one site is required, however, the test may be conducted at more than one site, if more than one applicable site is identified and/or is better suited towards one of the participating technologies

A response with possible sites is requested by **January 24, 2011**. The commitment of Site(s) will be completed by the end of January. The next steps will be to secure the vendor commitments by the end of February; prepare, complete review, and obtain EPA and vendor approval of the test plan by May; the ETV field test will be completed by July.

Please contact Ramona Darlington, Battelle Verification Test Coordinator, at 614-424-4199 or darlingtonr@battelle.org with any questions.